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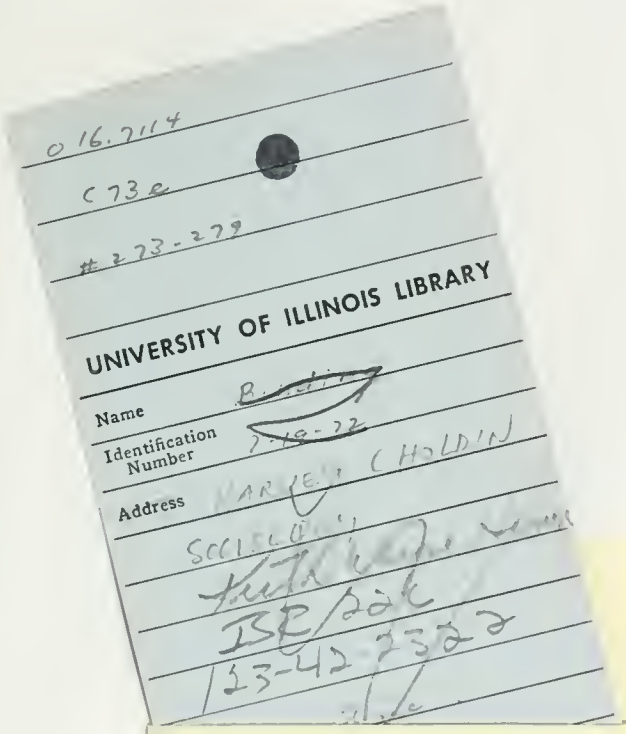
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April 1972

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MOTOR VEHICLE EMISSIONS: A bibliography

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MOTOR VEHICLE EMISSIONS:

A BIBLIOGRAPHY

by

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University of Southern California
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PREFACE

The opinion of experts is needed in the effort to control air pollution caused by the operation of motor vehicles. Materials which are needed fall into many disciplines. Solutions sought include mechanical "Tack on" devices; fuel adaptation or substitution of other energy sources besides those currently relied upon; or alternative engines to propel motor vehicles. Besides consultation of technical literature in the fields of engineering and chemistry, authoritative sources in the discipline of economics will be needed. The economic justification for pollution of the air by industry, namely the automobile manufacturers and the oil companies will have to be weighed against the social costs of pollution. Allied with and hopefully as important as economic factors, is medical evidence. Dangers to health must be investigated and if real evidence exists, it must be applied to the construction of regulatory policy.

The purpose of this paper is to provide a thorough acquaintance with all aspects of motor vehicle emisssions which cause or contribute to air pollution. It is hoped that the bibliography will be of use to the legislator or legislative analyst preparing

drafts of bills, to the lawyer who is involved in litigation, to the law student seeking information on the topic beyond that found in the statutes, administrative regulations and the existing decisions of the courts; and to the law librarian desiring to build a collection relating to the topic. Where possible, the full bibliographic information is given, including, in the case of obscure publishers, addresses.

Indeed, the reader will soon begin to realize from the presentation within, that many of the subdivisions of this paper could have been chosen as the subject of research. It is hoped that this effort has not been too ambitious and that the paper will serve as an aid to information and location. The compiler has attempted to include for the most part, the most recent sources of information, e.g. those published within the last five years. Some retrospective materials are included by reason of special features or quality of content.

It is the intention of the compiler to continue working on this bibliography and as a result many topics will bear a notation such as, "To be investigated", "To be evaluated".

Entry of bibliographic data follows Kate L. Turabian, A Manual for Writers...3rd edition (revised). Citations of legal materials do not follow the Harvard White Book because traditional format would be confusing to the users of the bibliography who do not have a background in the law.

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INTRODUCTORY WORKS

Beeler, Samuel C. Understanding Your Car. McKnight and McKnight Publishing Co., 1967.

Crouse, William H. Automotive Engine Design. New York: McGraw Hill Book Company, 1970.

Beeler's work is literally a primer for those who know very little about the automobile. Written for the purpose of teaching industrial arts, the treatment is completely practical. The most informative sections deal with operation of the power plant, carburetion and the exhaust system. If the reader feels that his knowledge is above an elementary level, he should choose Crouse. His book is designed to explain how automotive engines are designed and manufactured. It is devoted almost exclusively to the modern four-stroke-cycle, multiple cylinder, liquid cooled, overhead valve, internal combustion engine for vehicular use. Practical aspects of design are stressed.

Davies, J. Clarence. The Politics of Pollution. (Studies in Contemporary American Politics). New York: Pegasus, 1970.

"For citizen consideration, an unclutered profile of 20 years of major facts and figures that demonstrate the extent to which U.S. pollution-control problems are political. Writing as a political scientist and onetime environmental and consumer examiner with the U.S. Budget Bureau, Davies reviews the pollution challenge, various legislative and other responses by government bodies at state, local and the federal level in particular, noting competing and conflicting aspects. He indicates factors that effect policy process in regard to goals, research and standard setting and compliance, and emphasizes the need for informed, constructively directed public pressure on government." From ALA Booklist, 67 (December 15, 1970).

Esposito, John C. Vanishing Air: A Ralph Nader Study Group Report on Air Pollution. New York: Grossman, 1970.

A comprehensive report written to inform the citizen of what efforts have been made and those which have failed to be made to abate pollution of the air. Chapters 2, 3, 7 on the automobile industry and the NAPCA respectively, are of special interest. Available at the libraries in the area and in paper for $.95.

Committee on Science in the Promotion of Human Welfare. Air Conservation Commission, Air Conservation. The Report of the Air Conservation Commission of the American Association for the Advancement of Science. Washington, D.C., 1965.

Part I. Air Conservation and Public Policy
Part II. Summary of the Facts - a concise report on the state of scientific knowledge.
Part III. Background Reports - consists of seven chapters, some of which are fairly technical. In Part III. sections deal with carbon monoxide; oxides of nitrogen, photochemical smog and lead. Each discusses the composition and effects of the particular pollutant on human environment. Chapter 4 is entitled Air Conservation and the Law. On p. 13, the authors note, "Attempts to cope with the problem of air pollution on a community wide basis through legislation will probably be more effective than litigation."

Stern, Arthur C. ed. Air Pollution. New York: Academic Press, 1968. 3 Volumes.

The audience to which this work is addressed includes engineers, chemists, physicists, meteorologist, and lawyers. It is concerned with the cause, effect, transport, measurement and control of air pollution. Volume 3 covers four major areas: the emissions to the atmosphere from the principal air pollution source; control techniques and equipment used to minimize these emissions; the applicable laws, regulations and standards and the administrative and organizational procedures used to administer these laws and standards. The concluding chapter of volume 3 discusses air pollution literature sources and gives guidance in locating information not found in these volumes. Available at the Los Angeles County Law Library.

BIBLIOGRAPHIES

Richardson, Marie S. "Bibliography on Air and Water Pollution", Special Libraries 57 (July-August 1966) 385-390.

Arranged as follows: I. Sources of Information on Air and Water Pollution Resources. The names and addresses of many organizations interested in conservation are included. Section II. lists books and reports with explanatory notes for some. Section III. lists periodicals and Section IV. includes pertinent articles. Some of the abstracts listed are taken directly from the referenced journal, others from Engineering Index and Fuel Abstracts and Current Titles.

Murphy, E.M. "Firm Facts", Law Library Journal 62 (February-May 1969) 84, 225.

The compiler of this bibliography is the GM Corporation Legal Staff Librarian. Part I lists Public Laws, House and Senate Hearings, Reports, Documents and Committee Prints, p. 84-89. Part II is a bibliography of material from the Congressional Record, i.e. addresses, articles, editorials, bills and resolutions. The purpose of Part I as stated is to satisfy the need for everything issued by Congress on the subject of air pollution. Part I begins in coverage with the 84th Congress through the 90th Congress (1955-1968). The typical entry gives a brief cite with concise scope note if needed; where the title is self-explanatory, no scope note is written. The bibliography is limited to air pollution in general, however, the format lends itself to quick selection of sources relating to motor vehicles. Part II begins with volume 101 of the Congressional Record, 84th Congress, 1st session, 1955 through volume 112, 89th Congress, 2nd session, 1966. Al entries for the subjects Air Pollution, Air Pollution Control Act and Air Pollution Control Association are listed. Where there has been an active bill in the Congress it is marked with an asterisk. Available in the USC Law Center Library.

Council of Planning Librarians. Environmental Degradation, Exchange Bibliography #171. Compiled by Robert Powell Sangster. January 1971.

The section on air pollution is not specific to problems associated with the motor vehicle.

Knobbe, Mary L. Air Pollution: A Non-Technical Bibliography. Council of Planning Librarians, Exchange Bibliography #83, May 1969.

Most of the sources in this bibliography date from 1967 and/or 1968. It is divided according to the following topics: Air Pollution Studies: By City, County or State; Control Devices and Methods; Legislation, Administration and Economics; Source and Source Emission Studies: Models and Use of Computers; Standards and Criteria and Periodicals Cited. The bibliography will be useful as a finding tool for general information on air pollution. From an inspection of the titles included, it appears that only two of the materials annotated concern the motor vehicle specifically. Available at UCLA and upon request from: Council of Planning Librarians
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Air Pollution Foundation. Motor Vehicle Emissions and Their Control. Air Pollution Foundation, San Marino, California, 1960.

This bibliography could not be located in the Los Angeles area, however, the National Union Catalog notes location in several other libraries in the United States. It probably would be useful for a retrospective examination of research relating to motor vehicles prior to 1960. The Air Pollution Foundation is now defunct but was the earliest group to organize for the purpose of alleviating the smog problem in Los Angeles. According to an unauthorized source, the organization failed to do anything effective beyond the sponsorship of research and when it began to take interest in legal action and investigation of the responsibility of public officials, it was threatened by political pressures and decided to dissolve. The Los Angeles Public Library has several studies done under the auspices of the APF back in the 1950's. It is quite amazing that research like this had been undertaken so long ago but never implemented.

Environmental Pollution: A Selective Bibliography. Information for Business and Industry. U.S. Department of Commerce, National Bureau of Standards. Clearinghouse for Federal Scientific and Technical Information, May 1970.

Lists documents to be ordered from the Clearinghouse at the U.S. Department of Commerce, Springfield, Virginia. Most reports in the bibliography result from federally sponsored research by such departments as HEW, Interior, AEC, NASA, Defense, and Transportation. Pages 6-7 are devoted to Air Pollution-Engine Exhausts. Government documents are listed by identifying number and author and title. No annotation. Available at the Air Pollution Reference Room, UCLA.

Ruch, Walter E. Chemical Detection of Gaseous Pollutants: An Annotated Bibliography. Ann Arbor, Ann Arbor Science Publishing, 1967.

This bibliography is divided according to the two types of detectors: liquid and solid. The introduction gives information on factors influencing validity of detectors and gives instruction in preparation of same. Annotations included.

Nitrogen Oxides, Annotated Bibliography. Publication AP-72, August 1970.

Available from the Environmental Protection Agency for $2.75.

Hydrocarbons and Air Pollution: An Annotated Bibliography, 2 Volumes. United States Government Printing Office, Washington, D.C. 21402.

"A bibliography of literature on hydrocarbons in relation to air pollution prepared by the Air Pollution Technical Information Center. Approximately 2,300 documents abstracted in the bibliography are included in the information storage and retrieval system of the Environmental Protection Agency's Air Pollution Control Office. The bibliographic abstracts are arranged in 13 categories and the bibliography includes a subject index, author index, a geographic location index and title indes". From ER 46:1244.

ABSTRACTS

Air Pollution: A Bibliography. Bureau of the Mines, Department of the Interior. Compiled by S.J. Davenport and G.G. Margis. USGPO, 1954.

This source included abstracts of materials published up until 1952. See p. 53 Automobile Exhaust and p. 384, Legal Aspects of Air Pollution.

Air Pollution Bibliography, Volume I and II by Jack R. Gibron, W.E. Culver, Mary E. Kurz. Library of Congress, Technical Information Division. Compiled for the Public Health Service, U.S. Department of HEW, Washington, D.C., 1952, 1959.

Air Pollution Publications: A Selected Bibliography. 1963-1966. Department of HEW, PHS, U.S. Division of Air Pollution, Washington, D.C., 1966.

Air Pollution Publications: A Selected Bibliography with Abstracts, 1966-1968. Compiled by the Science and Technology Division of Library of Congress for the National Air Pollution Control Division. USDHEW, PHS, 1968.

"The Technical Information Division of the Library of Congress has compiled a two volume annotated bibliography of published literature on air pollution from 1952-1958. Abstracts present test data, and experimental results, describe new procedures and equipment and review legal, economic, and medical developments. In January 1959, the Library of Congress abstracts were merged with Air Pollution Control Administration (APCA) Abstracts which had started in 1954. The joint venture retained the name APCA Abstracts and continues to publish monthly abstracts on air pollution." From Stern, Air Pollution, Volume 3.

Air Pollution Abstracts. Department of Trade and Industry. Warren Spring Laboratory. Stevenage, Hartfordshire, Great Britain.

A monthly abstracting service. "The original papers to which these abstracts and titles refer can in most instances be obtained through the local public library. In case of difficulty enquirers may refer to Warren Spring Laboratory. In addition to original sources, the following abstracts journals have been used: Chemical Abstracts, Central Electricity Generating Board Digest and the National Air Pollution Control Administration Abstract Bulletin. Divided by topics, the abstracts give bibliographic information followed by indicative abstracting paragraphs. Truly international in scope.

Highway Safety Literature. Published by the U.S. Department of Transportation, Federal Highway Administration, National Highway Traffic Safety Bureau. Washington, D.C. 2059.

This publication began in December 1967 as a weekly abstracting service. Since April 1971 it is a bi-weekly publication. The citations are arranged under the subject categories and subcategories reflecting the Bureau's safety standards and research interests. A special feature is that the bulletin indicates, where possible, the availability of a document. Cumulations are made periodically. The first cumulation included issues from December 1967 to December 1968. The documents can be ordered and are priced by the number of pages. Available at WESRAC.

Air Pollution Translations: A Bibliography with Abstracts. Volume 1, National Air Pollution Control Administration Publication No. AP-56. USDHEW, PHS Consumer Protection and Environmental Health Service. Arlington, Virginia, May 1969.

Divided by topic: emission source; atmospheric interaction; measurement methods; control methods; effects-human health, - plants and livestock, - materials, - economic; air quality measurements; legal and administrative aspects; standards and criteria; basic science and technology. The objective of the publication is to present abstracts of translations that have been analyzed and accessioned by the Air Pollution Technical Information Center. A great majority of the works are of Russian origin. Some of the documents can be obtained from the Clearinghouse for Federal Scientific and Technical Information, U.S. Department of Commerce, 5825 Port Royal Road, Springfield, Virginia.

A Selective Bibliography of United States Government Research and Development Reports on Air Pollution. November 1968. Distributed by the CFTSI, U.S. Department of Commerce, National Bureau of Standard, Institute for Applied Technology.

Selected bibliography of titles of air pollution report literature announced in USGRDR during 1967-1968. Available from CFSTI. Also available on a subscription basis is Clearinghouse Announcements in Science and Technology, a rapid scanning format with author abstracts. This is a new reporting service of which category 3 covers air and water pollution. The Selective Bibliography follows the same topical breakdown as Air Pollution Translations.

Excerpta Medica: The International Medical Abstracting Service. Amsterdam, Excorpta Medica. Volume 1, 1947-

"An important abstracting service listing articles from medical journals in all countries. Article titles are given in English translation and sometimes in the original language. See section 17 which pertains to Public Health, Social Medicine and Hygiene." From Constance M. Winchell, Guide to Reference.

JOURNALS

Ecology: All Forms of Life in Relation to Environment. 1920. Monte Lloyd, Peter Frank, Ralph L. Dix. Duke University Press Box 6697 College Station, Durham, North Carolina 27708. $18.00 a year.

"Published for the Ecological Society of America, the journal contains research papers and shorter papers. The stress is on basic ecological problems rather than applied studies. Articles are restricted in length to less than twenty pages and priority in publication is given to members of the society". From Katz, Magazines for Libraries, p. 52. Indexed in Biological Abstracts, and Biological and Agricultural Abstracts as well as Chemical Abstracts and the Science Citation Index. Published bimonthly.

Environment (Formerly Scientist and Citizen) 1958. 10 years for $6.00. V. Brodine, Committee for Environmental Information, 438 North Skinner, St. Louis, Missouri 63130.

"Sponsored by an active and concerned citizenry who are involved in understanding environmental pollution caused by technology, the periodical supplies clear, well-documented articles written by acknowledged specialists for the layman on these problems. Reports are concerned with any contamination in our skies, water, foods, etc., whether the conditions exist in our own country or anywhere else in the world studies have frequently included the effects of nuclear technology. The magazine is not alarmist, rather it attempts to alert a too often apathetic public to the imbalance in nature created by our industrial world and to dangers too often glossed over by our governmental agencies." From Katz, p. 315.

Environmental Science and Technology. 1967. Membership (Nonmembers $7.00) James J. Morgan, American Chemical Society, 1155 16th St., N.W., Washington, D.C. 20036. Monthly.

"'Emphasizing water, air and waste chemistry' the publication nonetheless contains a good deal of nonspecialist information for interested citizenry concerned with clean water,... and other environmental programs. About half of each issue is spent in discussions of current activities along these lines- in the government, in industry, in the universities- and the one or two feature articles written in general language, interpret some new facet of environmental research. The remaining sections of the issue comprise specialized reports and short communications". -Katz, p. 315. Their is much concern shown for legislative activity on the federal and state level. Special issue November 1970 contains the Pollution Control Directory which lists advertised products; consulting services, products, services and supplies; events calendar; trade name products; books and authors and a listing of manufacturers and suppliers of control equipment.

Journal of the Air Pollution Control Association. A Monthly Journal Devoted to Air Quality Management. 4400 Fifth Ave., Pittsburgh, Pennsylvania 18213. Subscription for non-profit libraries and institutions $25.00, other $75.00 a year.

Specifically devoted to problems of air pollution. Published monthly; includes general articles as well as technical papers and professional news for member of the Association. Each issue includes the Washington report. Also included is a section called Motor Vehicle Pollution Control News. The APCA has been in existence since the early twentieth century and its journal is an important source of information. Its annual convention will be held this year in June at the Traymore Hotel in Atlantic City, New Jersey.

Mechanical Engineering. 1906. Monthly. $7.00. J.J. Jakletsch, American Society of Mechanical Engineers. 345 S. 47th St. New York, New York 10017.

"With the intent of publishing surveys on trends and developments in both mechanical engineering and related sciences, the periodical serves, in addition as a general news organ for the ASME. Features include tutorials and reviews on special aspects of the field and some general articles on management, economics and education. Its special departments provide exhaustive coverage of news and literature; abstracts of recent ASME meetings, digests of the current technical literature; briefs on engineering developments, both U.S. and foreign; programs of forthcoming meetings; announcements of new equipment and products; society notes and personalia. The publication should be informative and useful to nonspecialist as well as members of the profession". Katz, p. 58.

SAE Journal. 1917 Monthly. Membership (Non-members, $12.00) Otto W. Vathke. Society of Automotive Engineers, Inc., 485 Lexington Ave., New York, New York 10017.

"Directed to automotive engineers and students of engineering covering: automobiles, trucks, airplanes, trains, fuels, tires, computers, space and management. Articles, written by engineers in the field are generally followed by a bibliography of publications which can be ordered from SAE Journal. There is a special section for the Society of Automotive Engineers reports of committees, a calendar of meetings and news of appointments, etc. In the back of each issue there is an annotated list of various papers of the latest technical information on different subjects developed by SAE". Katz, p. 42. Indexed in Applied Science and Technology Index, Engineering Index, Meteorological and Geoastrophysical Abstracts.

Archives of Environmental Health. Monthly $12.00 a year. Published by the American Academy of Occupational Medicine, Association of Teachers of Preventive Medicine and American College of Preventive Medicine.

Divided into editorials, original articles, general articles and regular departments and case reports. Articles deal with topics such as pulmonary effects of tobacco, lead exposure, human tolerance of carbon monoxide, pesticide research, and other environmental questions. Articles are fairly technical requiring some knowledge of medical terminology.

REVIEWS OF THE LITERATURE

Applied Mechanics Reviews. 1947. Monthly. $80.00. S. Juhasz, American Society of Mechanical Engineers. 345 E. 47th St. New York, New York 10017.

"The Society's excellent review and abstracting journal provides coverage of the international literature on applied mechanics and allied sciences, as culled from over 900 engineering periodicals. Fields incorporated within the scope of the publication are not only mechanical engineering but extend to aerospace, chemical and civil engineering... Each issue contains one short survey paper reporting on research of timely and widespread interest. The reviews themselves are on the average, lengthy, critical, signed and include books and reports as well as periodicals.

THESAURI

Searle, V. et al. Thesaurus of Air Pollution Terms. Developed for the Public Health Service by Science Communications Inc., Washington, D.C., 1966.

Have not seen this source but it seems as though it may be very useful.

LEGAL SOURCES

Federal statutes.

As of December 1970, new legislation was passed by the Congress regarding air pollution. The text of the new laws is found in the Environment Reporter, Federal Laws 71:1101. At the time of this writing neither the USCA or its pocket supplement reflected the Clean Air Act Amendments of 1970. The following is a brief legislative history of the legislation regarding air pollution and the control of motor vehicle emissions.

1955 Title to amend the Water Pollution Control Act so as to provide for the control of air pollution.
Bill No. S. 928
Date introduced February 4, 1955
Committee hearings:
House, Interstate and Foreign Commerce
Senate, Public Works
Date of report:
House, June 28
Senate, May 27
Report No. House 968
Senate 389
Pages of Congressional Record
House, 9925
Senate, 7250
Date of passage:
House, July 5
Senate, May 31
Date approved July 14
Public Law 84-159

1963 Title: Accelerate and strengthen the Federal Air Pollution Control Program.
Bill No. HR 6518
S 432
Date introduced May 23
Committee Hearings:
House, Interstate and Foreign Commerce
Senate, Public Works
Date Reported
House, July 9
Senate, November 9
Report No.
House 508
Senate 638

Pages of Congressional Record
House, 13274
Senate, 22334
Date of passage:
House, July 24
Senate, November 19
Approved December 17
Public Law 88-206

For continuation of legislative history see United States Code. Congressional and Administrative News:

1965 p. 3608 PL 89-272

1967 p. 1938 PL 90-148

1970 p. 5356 PL 91-604

The 1970 legislation amends what was formerly contained in 42 USCA 1857 et. seq.

Federal regulations.

The Code of Federal Regulations, Title 45, Subtitle A, Part 85 outlines rules relating to the control of air pollution from new motor vehicles and new motor vehicle engines. However, as of this writing, the CFR is sadly out of date for the Federal Register reveals that Part 85 has been redesigned as Part 1201 of Chapter XII. ("List of CFR Sections Affected" Annual 1970.) Upon checking the "List of CFR Sections Affected" January - March 1971, it is noted that the Federal Register Volume 36, #55, Saturday March 30, 1971 contains the new regulations on p. 5321 through 5404.

California statutes.

West's Annotated California Code, (Health and Safety Code) Section 39000 et. seq. pertain to the following:

Part I Air Resources Board 39000-39270

Chapter 1.	General Provisions	39000
Chapter 2.	Administration	39020
Chapter 3.	Powers and Duties	39051
Chapter 4.	Motor Vehicle Pollution Control	39077
Chapter 5.	Low Emission of Motor Vehicles	39200
Chapter 6.	Enforcement	39260

Division 26 added by Stats. 1967 c. 1545 § 5

The California State legislature considered a bill which would expressly authorize class action suits against polluters. AB 109 §§ 2 (California 1970).

Litigation.

In re Multidistrict Private Treble Damage Antitrust Litigation Involving Motor Vehicle Air Pollution Control Equipment, M.D.L. No. 31 (Re Motion to Dismiss) September 4, 1970. 1 ER 1643. Multidistrict Treble Damage U.S. District Court, Central District, California.

Absence of commercial relationship between persons and entities claiming air pollution injuries to their businesses and properties and automobile manufacturers that allegedly conspired to prevent development of effective anti-pollution devices does not bar their Clayton act treble damage suits against the manufacturers.

United States versus Automobile Manufacturers Association, Inc., Civ. No. 69075 JWC, 1969 Trad Reg Rep// 45, 069 (2037) (C.D. California, filed January 10, 1969) Consent judgment entered October 29, 1969.

Illinois versus Autombile Manufacturers Association, Civ. Action 69C-2194 (Complaint filed October 23, 1969).

Loose leaf services.

Environment Reporter. Bureau of National Affairs. Opinions of Federal and state courts and administrative agencies in the field of environmental law with an index, digest, table of cases and classification guide. Washington, D.C.

Five divisions: Federal Laws, State Air Laws, State Water Laws, Current Developments and Decisions.

Environmental Law Reporter. A Project of the Environmental Law Institute, Dupont Circle Bldg. Suite 614, 3146 Connecticut Ave. N.W. Washington, D.C. 20036.

Divisions: Summary and Content, Litigation, Administrative Proceedings, Statutory and Administrative Materials, Articles and Notes and Bibliography and Facsimile Service. 12 monthly issues.

CCH. Clean Air News. A weekly loose leaf service devoted to all topics within the ecology movement; oil pollution, noise abatement, solid waste treatment as well as air and water pollution. Divided into three parts: Federal laws, weekly news letter and index. Available at the UCLA, Air Pollution Reference Room.

Law Reviews.

Environmental Law, Volume 1 - Spring 1970. Produced by the Northwestern School of Law. Available at the Los Angeles County Law Library KB 71 A12E56.

Natural Resources Lawyer. Journal of the Section of Natural Resources Law, American Bar Association. Available at the USC Law Center Library.

Natural Resources Journal. Published four times a year by the University of New Mexico School of Law.

Articles from Various and Sundry Law Reviews and Journals.

Bermingham, Paul E. "The Federal Government and Air and Water Pollution in 23 Business Lawyer, 467 (1968).

The objective of the article is to give some knowledge of what laws and regulations existed at the time. Completed before the passage of the 1967 Air Quality Act, therefore, valuable for retrospective information. Considers the prospects for tax relief for capital investment for pollution control equipment.

"The Automobile-Pollution Case: Intervention in Consent Decree Settlement", 5 Harvard Civil Right, Civil Liberties Law Review, 409 (1970).

Discusses US v. AMA in which the auto manufacturers were charged with conspiracy to fix the pattern of development, manufacture and installation of motor vehicle air pollution control equipment. p. 413 "This comment examines the opinion of the court in US v. AMA and what it reveals about the problems of intervention in the settlement of antitrust litigation by consent decree".

Wright, Colin. "Some Aspects of Corrective Taxes for Controlling Air Pollution Emissions", 9 Natural Resources Journal, 63 (1969).

Considers economic aspects of air pollution control as they pertain to the drafting of pollution abatement ordinances.

Platt, Rutherford H. "Toward Constitutional Recognition of the Environment", 56 ABA Journal, 1061 (1970).

Short informative article discussing conservationists' efforts to gain constitutional protection for the environment. In the light of the fact that the free enterprise system enjoys constitutional protection, this development of the law might not be as far-fetched as it sounds.

Katz, Milton. "Liability in Technology Assessment", 38 U of Cincinnati Law Review, 587 (1969).

Discusses the applications of nuisance and products liability in instances where advanced technology has outstripped the legal system's effort to regulate the total consequences of new developments. Cites and discusses Jon Handy and William R. Bernstein, For Themselves and On Behalf of the People of the United States of America That Are Similarly Situated v. General Motors Inc., Civil Action No. 69-1548-R (C.D. California, August 7, 1969).

Comment-Air Pollution: The Problem of Motor Vehicle Emissions, 3 Connecticut Law Review, 178 (1970).

Discusses possibilities of litigation... class action suit in negligence, nuisance and trespass. p. 197 "Litigation is also possible through stockholder suits or products liability suits. Plaintiffs with an inordinate exposure to motor vehicle emissions such as taxi drivers, tunnel police and toll officers would be in the strongest position to complain on a product liability basis."

Juergensmeyer, J.C. "Control of Air Pollution Through the Assertion of Private Rights," 1967 Duke Law Journal, 1126 (1967).

To be evaluated.

Fromson, Jeffrey. "A History of Federal Air Pollution Control", 30 Ohio State Law Journal, 516 (1969).

To be evaluated.

33 Law and Contemporary Problems (Spring 1968) published a symposium dealing with legal, economic, administrative and other social science aspects of air pollution. The following pertinent articles are included:

Cassell, Eric J. "The Health Effects of Air Pollution and Their Implications for Control", p. 197.

A brief review of the effects of air pollution on the human organism. "Because of the multifactorial nature of air pollution and its effects, control based primarily on standards for individual pollutants may be inadequate to the problem."

Ludwig, John H. "Air Pollution Control Technology: Research and Development on New and Improved Systems", p. 217.

"Major emphasis on control of emissions from motor vehicles is now focused on reduction of carbon monoxide and hydrocarbons. Future efforts will attack nitrous oxides and particulates and the development of unconventional vehicles with low pollution potential".

Wolozin, Harold. "The Economics of Air Pollution: Central Problems", p. 227.

States lack of consensus on what kinds of economic measures should be taken to control pollution.

Marin, Robert and Lloyd Symington. "A Guide to the Air Quality Act of 1967", p. 239.

A lengthy analysis of the Act. Praises the orderly, step by step procedure, scientific and comprehensive in approach, provided by the 1967 legislation.

O'Fallon, John E. "Deficiencies in the Air Quality Act of 1967", p. 275.

States that the Act does not make full use of the tools available.

Kennedy, Harold W. and Martin E. Weekes. "Control of Automobile Emissions - California Experience and the Federal Legislation", p. 297.

Pollack, Lawrence W. "Legal Boundaries of Air Pollution Control- State and Local Legislative Purpose and Techniques", p. 331.

"The legal tools are available for the job that has to be done although no one could honestly claim that effective air pollution control has been achieved. Modern and comprehensive state and local prevention and control techniques are relatively new and their harsh economic effects have deterred enforcement. The frustrations incident to enforcement should not however, cause a change of direction away from the present control techniques to the more remote aim of planning and zoning legislation. Centralized desires for efficient utilization and management of resources are tightly circumscribed by the protections of the free enterprise system guaranteed by the constitution."

Case books.

Krier, James E. Air Pollution: A Case Study in Environmental Law and Policy, Readings, Materials and Notes. Manuscript, not yet published. Spring 1970.

Krier is Acting Professor at UCLA Law School. The case book is on air pollution cases in general with principles of law applicable to motor vehicle pollution cases, e.g. nuisance, antitrust, negligence, products liability etc.

Digests and Compilation of Laws, Ordinances and Regulations.

A Digest of State Air Pollution Laws. U.S. Department of HEW, PHS. National Center for Air Pollution Control, Washington, D.C. 20201. (1967 edition)

A summary of state legislation with code citations. Each state is considered separately with the following topics discussed: administrative organization, prohibited emissions, procedures, violation and penalties and scope and construction.

Digest of Municipal Air Pollution Ordinances. Prepared by the Health Law Center, Graduate School of Public Health. University of Pittsburgh, 1962. USDHEW, PHS Division of Air Pollution, Washington, D.C. 20025.

Collection of ordinances relating to air pollution arranged by the city.

Levin, Stuart, Alan H. Gordon and Channing J. Hartelius. Law and the Municipal Ecology. National Institute of Municipal Law Officers (NIMLO Research Report 156) 1970.

The section dealing with Automobile Exhaust Emission Control gives citations for cases which relate to public nuisance law. p. 17 gives commentary on the Air Quality Act of 1967. III under Part One discusses federal statutes, administrative regulations and the limitation on municipal action.

A Compilation of Selected Air Pollution Emission Control Regulations and Ordinances. Prepared by Abatement and Control Development Programs. USDHEW, PHS Bureau of Disease Protection and Environmental Control, National Center for Air Pollution Control, Washington, D.C. 20201, 1968. (Revised ed.)

"This compilation contains selected sections of many emission control regulations and ordinances. It has been prepared to provide state and local air pollution control agencies industries and other interested people with selected examples of the many types of regulations in use today. All sections of regulations and ordinances included have been copied directly from the original test of individual state and local laws." From the introduction.

Handbooks

Brecher, Joseph J. and Manuel E. Nestle. Environmental Law Handbook. California Continuing Education of the Bar. 1970.

A survey of the field; suggests some legislative solutions, administrative proceedings and litigation. Chapter 6 is devoted to air pollution. Under private litigation, varieties of legal theories are listed: nuisance, trespass, negligence, strict liability; products liability, inverse condemnation, antitrust. Cites one advantage of antitrust: a plaintiff may prevail without having to prove substantial injury as he would in a nuisance action.

Environmental Quality: The First Annual Report of the Council on Environmental Quality. Transmitted to the Congress, August 1970. Chapter 4, Air Pollution. Reprinted by the USDHEW, PHS Environmental Health Service National Air Pollution Control Administration.

An annual report required by law to be submitted to Congress and the President. Recommendations include tax on lead in gasoline; better surveillance techniques; development of unconventional vehicles and development of mass transit. p. 76 The first surveillance data from 1968 showed that on the average hydrocarbon emission ran about 29% above the standard, carbon monoxide emission about 8% above; 1970 reports show the hydrocarbons higher by 25% and carbon monoxide by about 10%.

Baldwin, Malcolm F. and James K. Page Jr. eds. Law and the Environment. New York: Walker and Co., 1970.

Available at the Los Angeles County Law Library, KB 71 B18. Conference papers on law and environment. Article by David Sive, "Securing, Examining and Cross-Examining Expert Witnesses in Environmental Cases", p. 48-66 advises how to the witnesses you need and how to use their testimony most effectively. p. 105, James E. Krier "Environmental Litigation and the Burden of Proof". "Only in the last few years has 'environmental' litigation come into its own. There have been decades of air pollution cases, water pollution cases and poison spray cases, but they were not environmental lawsuits as we use the term today. Generally, their focus was narrow; they were proprietary lawsuits, brought by impaired persons on their own behalf and to protect their own economic interests. Environmental lawsuits, on the other hand, involve the presentation of broader issues beyond the scope of 'property rights' and 'personal injury'. They are brought in large measure, to realize something more than narrow, immediate, economic ends-the preservation of natural resources, scenic beauty, pure air and water."

TECHNICAL PAPERS AND REPORTS

Cantwell, E.N. et al. A Progress Report on the Development of Exhaust Manifold Reactors. Society of Automotive Engineers. International Automotive Engineering Congress, Detroit, Michigan. January 13-17, 1969 690139.

From the authors' abstract- "Exhaust manifold reactor systems using air injection have been developed to control exhaust emission levels of a variety of vehicles to less than 50 ppm Hc and 0.5% Co. The systems have been known to be compatible with other control systems used to reduce evaporative emissions and oxides of nitrogen. Certain limitations do exist; these are: size; reactors are at present too large for many vehicles; durability, under severe conditions its performance is not yet tested; cost, reactors are expensive and materials of proven durability are expensive; fuel economy, economy is decreased when the exhaust manifold reactor systems are adjusted to achieve low levels of emission. Supposedly this development took four years of research at DuPont.

McJones, R.W. and J.W. Huron. Control of Crankcase Emissions Through the Use of Negative Crankcase Pressure. Society of Automotive Engineers, West Coast Meetings, Los Angeles, California. August 8-11, 1966.

An unusual approach to crankcase ventilation and emission control resulting in a system that offers complete control of harmful pollutants. The system requires a minimum of attention and has never been known to become inoperative because of valve plugging. The system can be adjusted to match the blow-by of engines of all sizes and all stages of wear. Valuable side effects include improvements in engine and oil cleanliness; reductions of oil leakage and internal oil consumption.

Vehicle Emissions. Part I and II. Selected SAE Papers 1963-1966. Prepared under the auspices of the SAE Passenger Car Activity and SAE Fuels and Lubricants Activity.

A collection of technical papers all related to motor vehicle emission; specific topics include control, measurement, diesel engines, evaporation loss, crankcase and blowby losses. SAE reports are a valuable source of information; they are comprehensible to the practical scientist who is familiar with engine design and function. The format is excellent usually including either a summary of findings or abstract. One precaution is necessary. Many of these engineers are employed by the automotive manufacturers and this leads many to feel that government research efforts are necessarily without bias.

How Propane Can Alleviate Air Pollution. Courtesy of Petrolane, P.O. Box 1410, Long Beach, California 90801.

A ten page pamphlet which gives the results of emission testing of propane powered motor vehicles. Well researched and concise. Available from the Environmental Protection Agency.

Smith, Philip H. The Scientific Design of Exhaust and Intake Systems. Cambridge, Massachusetts: Robert Bentley, 1968.

GOVERNMENT RESEARCH

Kinosian, John R., John A. Maga and John R. Goldsmith. The Diesel Vehicle and its Role in Air Pollution. A Report to the California Legislature. California Department of Public Health, Bureau of Air Sanitation, 1962.

Written by a team composed of an engineer, administrator and a physician. "Much still needs to be learned regarding air pollution from diesels. Their exhaust cannot always be measured by the same procedures that in present use for gasoline powered vehicles...Evaluated on a community wide basis, the health effects of diesel exhaust appear to be less significant than those of gasoline engine exhausts, even if the numbers of both engines in the area were the same."

California Air Resources Board. Emissions from Motor Vehicles Exempted from Current Control: a report to the Legislature. 1970.

10 pages with bibliography.

_____. Annual Report to the Governor and the Legislature. 1970.-

Issued annually; detailes operations for the preceding year and is submitted in conformance with the requirements of Chapter 1545, Division 26, Section 39062, California Health and Safety Code.

California Air Resources Laboratory. Exhaust Emissions from Privately Owned 1966-1970 California Automobiles: A Statistical Evaluation of Surveillance Data. Supplement to Progress Report #22.

Prepared by the Air Resources Laboratory and available from the office at 434 South San Pedro St., Los Angeles, California.

California Air Resources Board. Report on Evaluation of F-310. May 1, 1970.

In mimeo form and available on request; includes statistics gleaned from tests on automobiles using F-310.

_____. A Rational Program for Control of Lead in Motor Gasoline. Report of the Technical Advisory Committee to the Air Resources Board.

Free. Presents arguments and data to support a recommendation that lead additives be removed from gasoline.

The Automobile and Air Pollution: A Program for Progress. Report of the Panel on Electrically Powered Vehicles. U.S. Department of Commerce, October 1967.

Demonstrates that inadequate incentive has been provided for individual automotive manufacturers and individual fuel producers to alter their respective technologies. "The major fears from rising lead levels in the environment stem from a belief that many of the adverse health effects may be chronic or cumulative and not early or easily detectable. This concern is accentuated by the fact that in addition to ingestion, inhalation is a major route for bodily absorption of lead. The motor vehicle is the major producer of air borne lead compounds in urban areas. In addition to its possible effects on human health, lead is reported to be a contributing agent to higher emission levels for hydrocarbon exhaust."

Congress and the Nation's Environment: Environmental Affairs of the 91st Congress. Prepared by the Environmental Policy Division of the Congressional Research Division of the Library of Congress.

Available from the Committee on Interior and Insular Affairs, Room 3106, New Senate Bldg., Washington, D.C. 20510. This report covers 26 environmental areas (ranging from air pollution to wildlife conservation) and analyzes new Congressional acts, identifies core concepts in proposals studied by Congressional committees and lists recommendations for further legislation.

The Search for a Low Emission Vehicle. Staff Report, Senate Commerce Committee, 91st Congress, 1st Session, 1969.

To be evaluated.

WORLD HEALTH ORGANIZATION REPORTS

Air Pollution. World Health Organization Monograph Series No. 46. 1961.

An important analysis of the problem of air pollution which illustrates merely by its date of publication that findings relative to this problem have been in existence many years. "The first attempt to marshal scientific manpower in the USA was the government sponsored technical conference on air pollution which was held in Washington in 1950. Another is represented by the national air pollution conferences which were sponsored in California by the Stanford Research Institute, in cooperation with the California Institute of Technology, the University of California, the University of Southern California and the Air Pollution Control Association and the Air Pollution Foundation. See the National Air Pollution Symposia, 1949, 1952, 1955."

World Health Organization, Technical Report Series, No. 410- Urban Air Pollution with Particular Reference to Motor Vehicles. Report of a WHO Expert Committee, Geneva, 1969.

Includes sections on sampling and analysis as well as effects on the environment. "Exhaust gases from diesel engines contain negligible amounts of carbon monoxide, no lead and some what lower amounts of the lighter hydrocarbons per unit of fuel consumed than are emitted by petrol powered vehicles. They are nevertheless responsible for much public criticism because they are offensive and malodorous and have a high content of particulate matter". Notes that the United States has collected the most data on air pollution.

Katz, M. Measurement of Air Pollutants - Guide to the Selection of Methods. WHO, 1969.

Available at the Los Angeles Public Library, 628,53 K19. An authoritative source on measurement. Prior to its publication it was submitted as a draft report for discussion by a WHO Scientific Group on the Identification and Measurement of Air Pollutants. The revised document was subsequently circulated to a number of experts of international repute and the report includes their suggestions. The work is technical and demands a knowledge of chemical compounds.

ECONOMIC STUDIES

Ridker, R. Economic Costs of Air Pollution: Studies in Measurement. New York: Praeger, 1967.

"This study deals with the relationship between ambient air quality and economic loss and more specifically with the development and testing of methods for quantifying this relationship". The results of the study are limited in that it is impossible to apply them all to the problems of a single locality. Chapter 3 presents the first strategy of measurement which is to develop price or cost weights for different diseases. The second strategy is represented by the next two chapters. The series of studies presented in Chapter 4 have several things in common. They are all concerned with adjustments to soiling and materials damage effects of air pollution in normal urban settings, and unfortunately, they all reach negative or inconclusive results. The first section of this chapter presents studies of business and commercial establishments and the second summarizes the results of an attempt to develop and implement a household questionnaire to measure pollution related cleaning and maintenance costs. In the third section, the reasons for these negative findings are discussed and a proposal is made that should help provide the desired evidence in the future. Chapter 5 presents the results of a more successful household survey; in this case, however, pollution levels rose to abnormally high levels for a short period. The third strategy of measurement, based on observed market adjustments to pollution, is applied in chapters 6 and 7. Both attempt to find an association between property values and air pollution, but the first relies on currently available crosssection data gathered in conjunction with a special pollution incident.

Jackson, W.E., H.C. Wohlers and W. DeCoursey. "Determining the Costs of Air Pollution Control", Journal of the Air Pollution Control Association, v. 19 (December 1969) 917.

This article describes a project partially supported by HEW in which various control schemes were devised for arresting the increase of polluted air in the Delaware Valley.

Walker, William R. ed. Economics of Air and Water Pollution. Blacksburg, Virginia, Virginia Polytechnic Institute, October 1969.

A collection of articles dealing with topics like soiling, damage to commercial vegetation, odors, visibility and aesthetics, and case studies of costs. Alternative means of measuring air pollution damages are discussed: direct use of technical coefficient of production and consumption, the use of property value and the use of the interview with air pollution sufferers.

Kneese, Allen V. "How Much is Air Pollution Costing Us?" National Conference on Air Pollution, Washington, D.C. December 12-14, 1966.

"Agreement seems to be developing that the most useful measurement so far devised (in cost analysis) is the present or capitalized value of the gross production lost."

Reitze, Arnold W. and Glenn Reitze. "Tax Incentives Don't Stop Pollution", ABA Journal, 57 (February 1971) 127.

Condemns the shift of the cost of compliance with government pollution limitations from individual taxpayer to the polluter.

CURRENT AWARENESS TOOLS

Environmental Technology and Economics. An Up to the Minute Technical, Economic, and Political Digest of the Water and Air Pollution Abatement, Solids Disposal, Desalination and Water Renovation Industries. Biweekly. $60.00 Environmental Science Services Division E.R.A., Inc., 24 Danbury Road, Wilton, Connecticut 06897.

Records and reports governmental activity including advertisement of government contracts up for bid. The bids state the nature of the research to be done and provide a good indication of what problems are still to be researched. Each issue is divided into Federal News, Business News, International News, Meetings, Government Contract Bids. No index. Available at the Air Pollution Reference Room, UCLA.

McGraw-Hill's Air and Water News. A weekly report on environmental problems: local, state, national and worldwide. McGraw-Hill Inc., 330 W. 42nd St., New York, New York 10036. $145.00 a year (Multiple copy discounts).

Accompanied by an index which is more up-to-date than the CCH Clean Air News, this service covers recent developments and has section on new books, manufacturers literature and other publication. Publishes announcements of meeting, conferences, seminars and hearings; air and water pollution people on the move, new products; new businesses.

Air/Water Pollution Report. Weekly worldwide environmental newsletter. $90.00 a year: quantity rates. Business Publishers Inc. P.O. Box 1067 Blair Station, Silver Spring, Maryland 20910.

Deals with waste disposal, soil pollution, desalination, noise and conservation. Format is not as pleasing as McGraw-Hill (above), however, it does give the same kind of information.

SOURCES OF UNPUBLISHED INFORMATION

Guide to Research in Air Pollution. Projects Active in Calendar Year 1966. 6th edition. Prepared by USDHEW, PHS Division of Air Pollution, Washington, D.C. 20201 jointly with American Society of Mechanical Engineers.

Divided into four sections: summary of the status of air pollution research as a whole; lists of individual projects under investigation and indexes by subject and investigator. According to the report in 1966, 48% of the total projects reported were conducted by universities, 30% by federal agencies, 11% by industrial organizations and 7% by private organizations (non-industrial). Each entry gives project number and title, investigator, sponsor and project data. There is a 1969 edition available from EPA for $1.50. Write to EPA and request AP-47. Also Highlights of Selected Air Pollution Research Grants, AP-70, May 1970. $.70.

Dissertation Abstracts. Ann Arbor, Michigan: University Microfilms, 1952-

Each month a compilation is made of doctoral dissertations completed in approximately 160 universities. For each dissertation listed there is a 300 to 400 word abstract written by the author. Dissertations themselves can be purchased from UM either in xerox copy or microfilm. UM also publishes an Index to American Doctoral Dissertations (issued annually as #13 of DA) which is a consolidated list of dissertations for which doctoral degrees were awarded during the previous academic year. This includes some dissertations which did not appear in DA. Recently UM announced a new computer based research service called "DATRIX" through which an individual can request a keyword search of all dissertations listed in DA.

A Resource Guide on Pollution Control. American Association of University Women, Washington, D.C. 2nd edition, June 1970.

To be evaluated.

The Roper Public Opinion Research Center at Williams College in Massachusetts provides information from their data bank of questionnaires and survey results.

Air Pollution Reference Room
Room 5513 Boelter Hall, School of Engineering, UCLA
Los Angeles, California (213) 825-2784

A non-circulating information center for technical, economic, political, biological and sociological information on air pollution and the quality of our environment. Open to the public, it is staffed by students under the direction of Prof. R.L. Perrine. Much of the material came originally from the library of Prof. W.J. King. Call for an appointment.

California Air Resources Board
434 So. San Pedro St. Los Angeles, California
Frank Bonamessa, Vehicle emissions expert.

Nicholas Yost
600 State Bldg. 217 W. 1st St. Los Angeles, California
(213) 620-3473

Mr. Yost is with the California Attorney General's Office and environmental law is his specialty.

California Institute of Technology
Pasadena, California
Prof. Ralph Miles
Prof. M. Easterland (213) 795-6841 Ex: 1228
Prof. A.J. Haagen-Smit (to be professor emeritus, June 1971)

Environmental Protection Agency
Administrator- William D. Ruckelshaus
Air Pollution Control Office - John T. Middleton
Headquarters Location 1626 K St., N.W. Washington, D.C. 20460

It is anticipated that by the end of 1971, EPA headquarters will be at Waterside Mall, 4th and M Sts., S.W. Washington, D.C. To insure that all of its efforts are responsive to local needs, EPA has established ten regional offices. Each office is headed by an Interim Regional Coordinator who works closely with state and local officials, civic, service and citizen organizations, industry and other federal agencies to insure maximum effectiveness of environmental programs and anti-pollution activities. Regional Coordinator for California is Paul De Falco, 760 Market St., San Francisco, California 94102 (415) 556-4303.

The following sources can be used to up-date this bibliography as the passage of time makes its utility decrease. All of those included are finding tools.

Bibliographic Index
Engineering Index
United States Government Research and Development Reports
Applied Science and Technology Index
Oil and Gas Bibliography
Fuel Abstracts and Current Titles
Index to Periodical Articles Related to Law
Index to Legal Periodicals
Monthly Catalog
California State Publications
New York Times Index
Universal Reference System
Gas Abstracts
International Bibliography of Economics (UNESCO)
Highway Safety Literature

The following subject headings should be used in searching library catalogs for sources.

Automobiles and air pollution
Automobile exhaust gas
Automobiles-Fuel Systems
Automobiles-Laws and regulations
Automobiles-Motors
Ecology
Human Ecology
Man-Influence on Environment
Natural Resources
Society of Automotive Engineers

Chronological Checklist

Statutes and Codes
Case book
Shephard's Citations
Loose leaf services
APCA Abstracts
USGRDR
Highway Safety Literature
SAE Publications
Index to Legal Periodicals
Library catalogs

When time permits the expansion of this bibliography, the following sources are to be investigated.

Automotive Exhaust Research Studies
Instrument Society of America
American Society for Testing and Materials
Meteorological Aspects of Air Pollution, Course Manual.
U.S. Robert A. Taft Sanitary Engineering Center.
NAPCA annual report to Congress, "Cost of Clean Air"
Air Pollution Medical Research Conference (from 1957 onward)
Conference on Methods in Air Pollution (from 1958 onward)
Journal of Economic Abstracts
Congressional Record
Congressional Quarterly Weekly Reports
Motor Vehicles, Air Pollution and Health. Report of the Surgeon General to the Congress. Public Health Service Reports.

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Walker, 30

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